| Ref<br># | Hits  | Search Query   | DBs                          | Default<br>Operator | Plurals | Time Stamp       |
|----------|-------|--|------------------------------|---------------------|---------|------------------|
| #<br>S1  | 186   | photovoltaic\$2 and nanotube\$2  | US-PGPUB;<br>USPAT;<br>USOCR | OR                  | OFF     | 2006/01/26 10:40 |
| S2       | 305   | nanoimprint\$4   | US-PGPUB;<br>USPAT;<br>USOCR | OR                  | OFF     | 2005/08/17 15:47 |
| S3       | 14178 | photovoltaic\$2  | US-PGPUB;<br>USPAT;<br>USOCR | OR                  | OFF     | 2005/08/17 15:49 |
| S5       | 2     | polybutylthiophene   | US-PGPUB;<br>USPAT;<br>USOCR | OR                  | OFF     | 2005/08/17 15:50 |
| S6       | 0     | poly adj butylthiophene  | US-PGPUB;<br>USPAT;<br>USOCR | OR                  | OFF     | 2005/08/17 15:49 |
| S7       | 0     | poly adj butyl adj thiophene   | US-PGPUB;<br>USPAT;<br>USOCR | OR                  | OFF     | 2005/08/17 15:49 |
| S8       | 2     | polybutylthiophene<br>polydibutylthiophene   | US-PGPUB;<br>USPAT;<br>USOCR | OR                  | OFF     | 2005/08/17 15:50 |
| 59       | 1589  | (977/Dig.1).CCLS.  | US-PGPUB;<br>USPAT;<br>USOCR | OR                  | OFF     | 2005/08/18 09:07 |
| S10      | 423   | S9 and (nanotube\$2 photovoltaic\$2)   | US-PGPUB;<br>USPAT;<br>USOCR | OR                  | OFF     | 2005/08/18 09:1: |
| S11      | 28    | S9 and photovoltaic\$2   | US-PGPUB;<br>USPAT;<br>USOCR | ; OR                | OFF     | 2005/12/04 16:4  |
| S12      | 395   | S10 not S11  | US-PGPUB<br>USPAT;<br>USOCR  | ; OR                | OFF     | 2005/08/18 09:5  |
| S13      | 18    | ("4064566"   "4330283"   "4693986<br>  "4963151"   "5021063"  <br>  "5030238"   "5049157"   "5108452"<br>  "5180394"   "5266609" | " US-PGPUB<br>USPAT;         | ; OR                | OFF     | 2005/08/18 11:1  |
|          |       | "5334625"   "5336699"   "5686182"<br>  "6066272"   "6099960"  <br>  "6251522"   "6284832"  <br>  "6340822").PN.                  |                              |                     |         | 2007/20/10 11    |
| S14      |       | 1 ("5171373").PN.  | US-PGPUE<br>USPAT;<br>USOCR  | B; OR               | OFF     | 2005/08/18 11:   |
| S15      | 1     | 6 ("5171373").URPN.  | USPAT                        | OR                  | OFF     | 2005/08/18 11:   |

| S16 | 2178 | (136/260,264,263,256,250).CCLS.                            | US-PGPUB;<br>USPAT;<br>USOCR | OR    | OFF | 2005/12/02 16:40 |
|-----|------|--|------------------------------|-------|-----|------------------|
| S17 | 1337 | S16 and (press\$4 imprint\$4 compress\$5 gap polymeriz\$7) | US-PGPUB;<br>USPAT;<br>USOCR | OR    | OFF | 2005/09/07 17:20 |
| S18 | 1164 | S16 and (press\$4 imprint\$4 compress\$5 polymeriz\$7)     | US-PGPUB;<br>USPAT;<br>USOCR | OR    | OFF | 2005/09/07 18:09 |
| S19 | 558  | S16 and gap  | US-PGPUB;<br>USPAT;<br>USOCR | OR    | OFF | 2005/09/07 17:20 |
| S20 | 41   | S16 and gap with fill\$4                                   | US-PGPUB;<br>USPAT;<br>USOCR | OR    | OFF | 2005/09/07 17:20 |
| S21 | 3    | S16 and (imprint\$4 and polymeriz\$5)                      | US-PGPUB;<br>USPAT;<br>USOCR | OR    | OFF | 2005/09/07 18:12 |
| S22 | 171  | S16 and (polymeriz\$7)                                     | US-PGPUB;<br>USPAT;<br>USOCR | OR    | OFF | 2005/09/07 18:29 |
| S23 | 16   | S16 and (polymeriz\$7 same dye)                            | US-PGPUB;<br>USPAT;<br>USOCR | OR    | OFF | 2005/09/07 18:29 |
| S24 | 327  | (136/263).CCLS.  | US-PGPUB;<br>USPAT;<br>USOCR | OR    | OFF | 2005/12/02 16:36 |
| S25 | 224  | S24 and dye\$3   | US-PGPUB;<br>USPAT;<br>USOCR | OR    | OFF | 2005/12/02 16:37 |
| S26 | 78   | S24 and dye\$3 and polymeriz\$8                            | US-PGPUB;<br>USPAT;<br>USOCR | OR    | OFF | 2005/12/02 16:37 |
| S27 | 2224 | (136/260,264,263,256,250).CCLS.                            | US-PGPUB;<br>USPAT;<br>USOCR | ; OR  | OFF | 2005/12/02 16:41 |
| S28 | 181  | S27 and polymeriz\$8                                       | US-PGPUB<br>USPAT;<br>USOCR  | ; OR  | OFF | 2005/12/02 16:59 |
| S29 |      | 10/699442  | US-PGPUB<br>USPAT;<br>USOCR  | ; OR  | OFF | 2005/12/02 16:59 |
| S30 |      | 10/699,442   | US-PGPUB<br>USPAT;<br>USOCR  | ; OR  | OFF | 2005/12/02 17:04 |
| S31 |      | surface adj imprinted adj films                            | US-PGPUE<br>USPAT;<br>USOCR  | s; OR | OFF | 2005/12/02 17:53 |

| S32 | 10   | S27 and imprint\$4   | US-PGPUB;<br>USPAT;<br>USOCR | OR    | OFF | 2005/12/02 17:53 |
|-----|------|--|------------------------------|-------|-----|------------------|
| S33 | 0    | conformal adj gap same dye   | US-PGPUB;<br>USPAT;<br>USOCR | OR    | OFF | 2005/12/04 15:30 |
| S34 | 0    | conformal adj gap and dye  | US-PGPUB;<br>USPAT;<br>USOCR | OR    | OFF | 2005/12/04 15:30 |
| S35 | 15   | conformal adj gap  | US-PGPUB;<br>USPAT;<br>USOCR | OR    | OFF | 2005/12/04 15:31 |
| S36 | 3465 | (thiophene polythiophene) and gap  | US-PGPUB;<br>USPAT;<br>USOCR | OR    | OFF | 2005/12/04 15:31 |
| S37 | 132  | (thiophene polythiophene) same gap   | US-PGPUB;<br>USPAT;<br>USOCR | OR    | OFF | 2005/12/04 15:31 |
| S38 | 17   | (thiophene polythiophene) same gap same polymeriz\$8                             | US-PGPUB;<br>USPAT;<br>USOCR | OR    | OFF | 2005/12/04 15:36 |
| S39 | 1    | ("5,403,451").PN.  | US-PGPUB;<br>USPAT;<br>USOCR | OR    | OFF | 2005/12/04 15:34 |
| S40 | 89   | (thiophene polythiophene) same dye\$4 same polymeriz\$8                          | US-PGPUB;<br>USPAT;<br>USOCR | OR    | OFF | 2005/12/04 16:24 |
| S41 | 12   | (thiophene polythiophene) same<br>shrink\$5 same polymeriz\$8                    | US-PGPUB;<br>USPAT;<br>USOCR | OR    | OFF | 2005/12/04 16:25 |
| S42 | 4    | (thiophene polythiophene) and photovoltaic\$2 and nanoimprint\$8 adj lithography | US-PGPUB;<br>USPAT;<br>USOCR | OR    | OFF | 2005/12/04 16:44 |
| S44 | 2224 |  | US-PGPUB<br>USPAT;<br>USOCR  | ; OR  | OFF | 2006/01/27 16:44 |
| S45 | 27   | photovoltaic\$2 and electrophoretic with deposit\$8                              | US-PGPUB<br>USPAT;<br>USOCR  | ; OR  | OFF | 2006/01/26 10:44 |
| S46 | 3    | photovoltaic\$2 and electrophoretic with deposit\$8 and sol with gel\$4          | US-PGPUB<br>USPAT;<br>USOCR  | ; OR  | OFF | 2006/01/26 10:46 |
| S47 | 28   | photovoltaic\$2 and electrophore\$9 with deposit\$8 and nano\$9                  |                              | s; OR | OFF | 2006/01/26 10:57 |
| S48 |      | polydibutylthiophene   | US-PGPUE<br>USPAT;<br>USOCR  | 3; OR | OFF | 2006/01/26 10:57 |

| S49 | 2537 | butyl with thiophene   | US-PGPUB;<br>USPAT;<br>USOCR | OR    | OFF  | 2006/01/26 10:57 |
|-----|------|--|------------------------------|-------|------|------------------|
| S50 | 5    | butyl near5 thiophene and<br>photovoltaic\$2                           | US-PGPUB;<br>USPAT;<br>USOCR | OR    | OFF  | 2006/01/26 10:58 |
| S51 | 17   | poly with butyl near5 thiophene  | US-PGPUB;<br>USPAT;<br>USOCR | OR    | OFF  | 2006/01/26 10:59 |
| S52 | 0    | "poly(3-butyl thiophene)" and photovoltaic\$2                          | US-PGPUB;<br>USPAT;<br>USOCR | OR    | OFF. | 2006/01/26 11:00 |
| S53 | 8    | (poly with butyl with thiophene) and photovoltaic\$2                   | US-PGPUB;<br>USPAT;<br>USOCR | OR    | OFF  | 2006/01/26 11:08 |
| S54 | 36   | (butyl with thiophene) and photovoltaic\$2                             | US-PGPUB;<br>USPAT;<br>USOCR | OR    | OFF  | 2006/01/26 11:30 |
| S55 | 5    | (butyl near3 thiophene) and photovoltaic\$2                            | US-PGPUB;<br>USPAT;<br>USOCR | OR    | OFF  | 2006/01/26 11:08 |
| S56 | 29   | PBT and photovoltaic\$2  | US-PGPUB;<br>USPAT;<br>USOCR | OR    | OFF  | 2006/01/26 11:34 |
| S57 | 4    | PBT and photovoltaic\$2 and oxadiazole                                 | US-PGPUB;<br>USPAT;<br>USOCR | OR    | OFF  | 2006/01/26 13:23 |
| S58 | 22   | "6517995"  | US-PGPUB;<br>USPAT;<br>USOCR | OR    | OFF  | 2006/01/26 12:32 |
| S59 | 0    | S58 and (solar adj cell\$2 photovoltaic\$2)                            | US-PGPUB;<br>USPAT;<br>USOCR | OR    | OFF  | 2006/01/26 12:32 |
| S60 | 151  | photovoltaic\$2 and (thiophene polythiophene) same monomer\$2          | US-PGPUB;<br>USPAT;<br>USOCR | OR    | OFF  | 2006/01/26 13:36 |
| S61 | 27   | photovoltaic\$2 and (thiophene polythiophene) same monomer\$2 and CdSe | US-PGPUB<br>USPAT;<br>USOCR  | ; OR  | OFF  | 2006/01/26 13:37 |
| S62 | 5:   |  | US-PGPUB<br>USPAT;<br>USOCR  | ; OR  | OFF  | 2006/01/26 13:37 |
| S63 | 40   |  | US-PGPUB<br>USPAT;<br>USOCR  | ; OR  | OFF  | 2006/01/27 08:05 |
| S64 |      | 5 S63 and photovoltaic\$2  | US-PGPUE<br>USPAT;<br>USOCR  | 3; OR | OFF  | 2006/01/27 08:02 |
| S65 |      | 6 ("4874462").URPN.  | USPAT                        | OR    | OFF  | 2006/01/27 08:08 |

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| S66 | 100  | (imprint\$5 nanoimprint\$5) same sol adj gel\$4  | US-PGPUB;<br>USPAT;<br>USOCR | OR    | OFF | 2006/01/27 08:13 |
|-----|------|--|------------------------------|-------|-----|------------------|
| S67 | 727  | (imprint\$5 nanoimprint\$5) same monomer\$2  | US-PGPUB;<br>USPAT;<br>USOCR | OR    | OFF | 2006/01/27 08:13 |
| S68 | 7    | S67 and photovoltaic\$2  | US-PGPÚB;<br>USPAT;<br>USOCR | OR    | OFF | 2006/01/27 08:20 |
| S69 | 1094 | monomer\$2 and photovoltaic\$2   | US-PGPUB;<br>USPAT;<br>USOCR | OR    | OFF | 2006/01/27 08:20 |
| S70 | 794  | monomer\$2 and photovoltaic\$2 and polymeriz\$9  | US-PGPUB;<br>USPAT;<br>USOCR | OR    | OFF | 2006/01/27 08:20 |
| S71 | 218  | S70 and (imprint\$8 nanoimprint\$8 nano adj imprint\$8 emboss\$8 screen adj print\$4)                                | US-PGPUB;<br>USPAT;<br>USOCR | OR    | OFF | 2006/01/27 08:21 |
| S72 | 200  | (pyrrole\$2 aniline\$2 oxadiazole\$2) same monomer\$3 and sol adj gel\$4   | US-PGPUB;<br>USPAT;<br>USOCR | OR    | OFF | 2006/01/27 16:07 |
| S73 | 18   | S72 and (solar adj cell\$2 photovoltaic\$2)  | US-PGPUB;<br>USPAT;<br>USOCR | OR    | OFF | 2006/01/27 15:25 |
| S74 | 1018 | thiophene\$2 with polymeriz\$9   | US-PGPUB;<br>USPAT;<br>USOCR | OR    | OFF | 2006/01/27 15:25 |
| S75 | 85   | S74 and photovoltaic\$2  | US-PGPUB;<br>USPAT;<br>USOCR | OR    | OFF | 2006/01/27 15:25 |
| S76 | 0    | S74 same photovoltaic\$2   | US-PGPUB;<br>USPAT;<br>USOCR | OR    | OFF | 2006/01/27 15:25 |
| S77 | 5830 | (pyrrole\$2 aniline\$2 oxadiazole\$2) same monomer\$3 and polymeriz\$8   | US-PGPUB<br>USPAT;<br>USOCR  | OR    | OFF | 2006/01/27 16:02 |
| S78 | 3711 | (pyrrole\$2 aniline\$2 oxadiazole\$2) same monomer\$3 same polymeriz\$8  | US-PGPUB<br>USPAT;<br>USOCR  | ; OR  | OFF | 2006/01/27 16:02 |
| S79 | 99   |  | US-PGPUB<br>USPAT;<br>USOCR  | ; OR  | OFF | 2006/01/27 16:02 |
| S80 | 2:   | (pyrrole\$2 aniline\$2 oxadiazole\$2) same monomer\$3 same (nanoimprint\$4 nano adj imprint\$4 imprint\$4 emboss\$9) | US-PGPUB<br>USPAT;<br>USOCR  | OR    | OFF | 2006/01/27 16:10 |
| S81 | 18   | (pyrrole\$2 aniline\$2 oxadiazole\$2) same (nanoimprint\$4 nano adj imprint\$4 imprint\$4 emboss\$9)                 | US-PGPUE<br>USPAT;<br>USOCR  | 3; OR | OFF | 2006/01/27 16:10 |

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|-----|------|--|------------------------------|------|-------------|------------------|
| S82 | 83   | (pyrrole\$2 aniline\$2 oxadiazole\$2)<br>same (nanoimprint\$4 nano adj<br>imprint\$4 imprint\$4)                       | US-PGPUB;<br>USPAT;<br>USOCR | OR   | OFF         | 2006/01/27 16:10 |
| S83 | 3567 | (pyrrole\$2 aniline\$2 oxadiazole\$2)<br>same (nanoimprint\$4 nano adj<br>imprint\$4 imprint\$4 print\$4)              | US-PGPUB;<br>USPAT;<br>USOCR | OR   | OFF         | 2006/01/27 16:11 |
| S84 | 16   | (pyrrole\$2 aniline\$2 oxadiazole\$2) same (nanoimprint\$4 nano adj imprint\$4 imprint\$4) same polymeriz\$8           | US-PGPUB;<br>USPAT;<br>USOCR | OR   | OFF         | 2006/01/27 16:11 |
| S85 | 9344 | (pyrrole\$2 aniline\$2 oxadiazole\$2) same polymeriz\$8  | US-PGPUB;<br>USPAT;<br>USOCR | OR   | OFF         | 2006/01/27 16:11 |
| S86 | 3301 | (pyrrole\$2 aniline\$2 oxadiazole\$2)<br>with polymeriz\$8   | US-PGPUB;<br>USPAT;<br>USOCR | OR   | OFF         | 2006/01/27 16:11 |
| S87 | 2    | (pyrrole\$2 aniline\$2 oxadiazole\$2)<br>with polymeriz\$8 same stamp\$4   | US-PGPUB;<br>USPAT;<br>USOCR | OR   | OFF         | 2006/01/27 17:47 |
| S88 | 10   | (pyrrole\$2 aniline\$2 oxadiazole\$2) with polymeriz\$8 same imprint\$6  | US-PGPUB;<br>USPAT;<br>USOCR | OR   | OFF         | 2006/01/27 16:17 |
| S89 | 7    | (pyrrole\$2 aniline\$2 oxadiazole\$2) with sol adj gel\$4  | US-PGPUB;<br>USPAT;<br>USOCR | OR   | OFF         | 2006/01/27 16:29 |
| S90 | 204  | silicon with substrate\$2 and (thiophene\$2 polythiophene\$2) and photovoltaic\$2                                      | US-PGPUB;<br>USPAT;<br>USOCR | OR   | OFF         | 2006/01/27 16:29 |
| S91 | 967  |  | US-PGPUB;<br>USPAT;<br>USOCR | OR   | OFF         | 2006/01/27 16:4  |
| S92 | 2651 | (264/255).CCLS.  | US-PGPUB;<br>USPAT;<br>USOCR | OR   | OFF         | 2006/01/27 16:4  |
| S93 | 0    | S92 and photovoltaic\$2  | US-PGPUB;<br>USPAT;<br>USOCR | ; OR | OFF         | 2006/01/27 16:4  |
| S94 | C    | (pyrrole\$2 aniline\$2 oxadiazole\$2) same sol adj gel\$4 same (titanium adj oxide\$2 titanium adj dioxide\$2 titania) | US-PGPUB<br>USPAT;<br>USOCR  | ; OR | OFF         | 2006/01/27 17:4  |

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| 1.        | Novel approaches to developing carbon nanotube based polymer composites: fundamental studies and nanotech applications • ARTICLE Polymer, Volume 46, Issue 17, 8 August 2005, Pages 6715-6718  Luca Valentini and Josè M. Kenny  SummaryPlus   Full Text + Links   PDF (160 K)                    |
| 2. 🗔      | 04/02683 Photovoltaic cells based on dye-sensitisation of single-wall carbon nanotubes in a polymer matrix: Kymakis, E. and Amaratunga, G. A. J. Solar Energy Materials and Solar Cells, 2003, 80, (4), 465–472 • ABSTRACT Fuel and Energy Abstracts, Volume 45, Issue 6, November 2004, Page 382 |
| 3. 🗆      | Polymers containing fullerene or carbon nanotube structures • REVIEW ARTICLE Progress in Polymer Science, Volume 29, Issue 11, November 2004, Pages 1079-1141 Changchun Wang, Zhi-Xin Guo, Shoukuan Fu, Wei Wu and Daoben Zhu Abstract  |
| 4.        | Photovoltaic cells based on dye-sensitisation of single-wall carbon nanotubes in a polymer matrix •   |
| 7. 1. 1   | ARTICLE<br>Solar Energy Materials and Solar Cells, Volume 80, Issue 4, December 2003, Pages 465-472   |
|           | E. Kymakis and G. A. J. Amaratunga <u>SummaryPlus</u>   <u>Full Text + Links</u>   <u>PDF (148 K)</u>   |
| 5. 🏻      | Single wall carbon nanotube doping improves performance • NEWS Photovoltaics Bulletin, Volume 2002, Issue 3, March 2002, Page 4   |
| 6. [      | Electronic phenomena in chiral carbon nanotubes in the presence of a magnetic field • ARTICLE Physica E: Low-dimensional Systems and Nanostructures, Volume 12, Issues 1-4, January 2002, Pages 741-744  O. V. Kibis Abstract   |
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| 3. 🗖        | Design, synthesis and photovoltaic properties of [60] fullerene based molecular Materials Science and Engineering: C, In Press, Corrected Proof, Available online José L. Segura, Francesco Giacalone, Rafael Gómez, Nazario Martín, Dirk M. Guld Angela Swartz, Ingo Riedel, Dana Chirvase, Jurgen Parisi et al. Abstract  | Z IIu Zust Zoot,            |
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| 2. 🗖        | Correlation of morphology and device performance in inorganic-organic TiO <sub>2</sub> -polythiophene  hybrid solid-state solar cells • REVIEW ARTICLE  Coordination Chemistry Reviews, Volume 248, Issues 13-14, July 2004, Pages 1491-1499  Luke B. Roberson, Mark A. Poggi, Janusz Kowalik, Greg P. Smestad, Lawrence A. Bottomley and Laren  M. Tolbert  Abstract |
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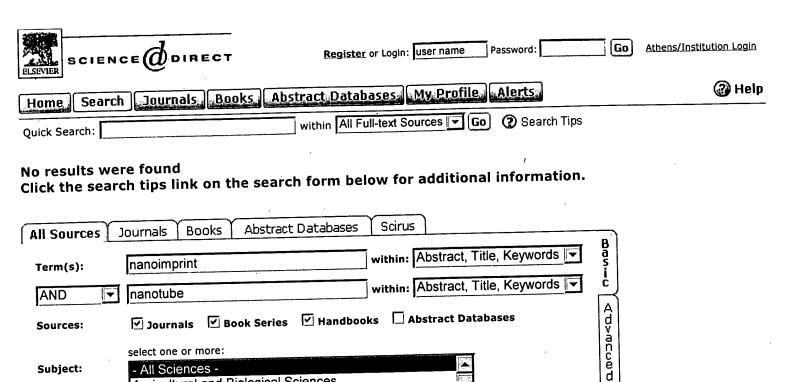
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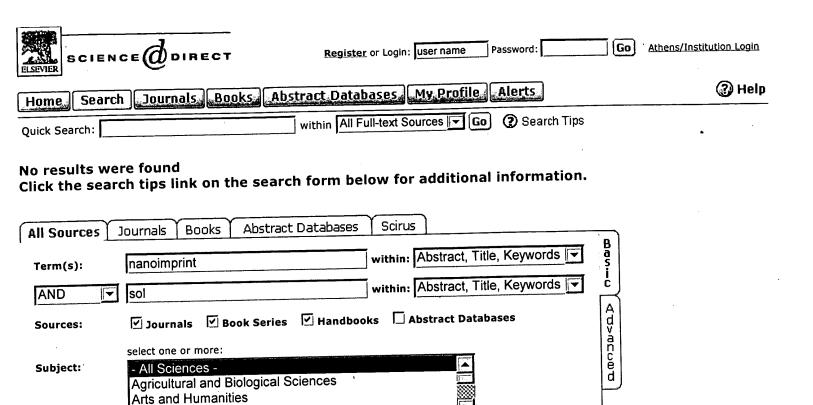
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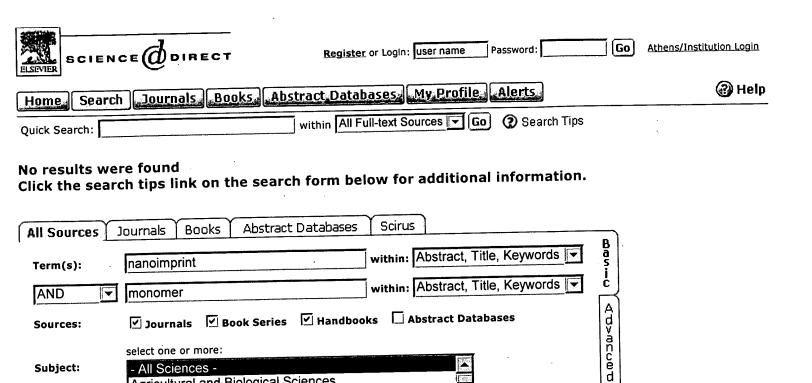
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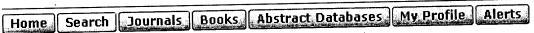
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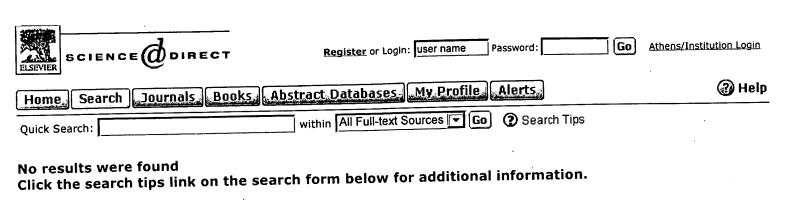
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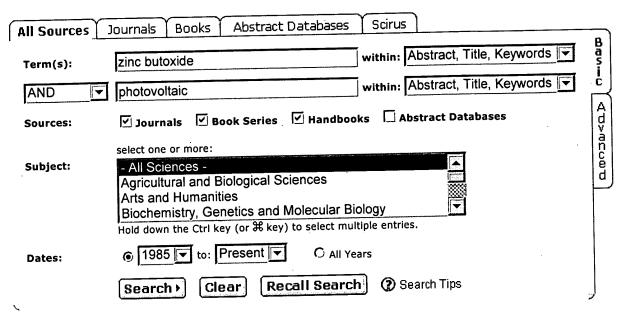
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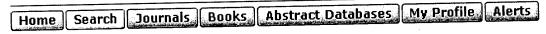
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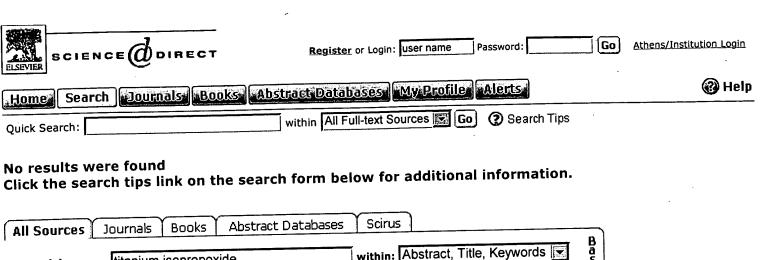
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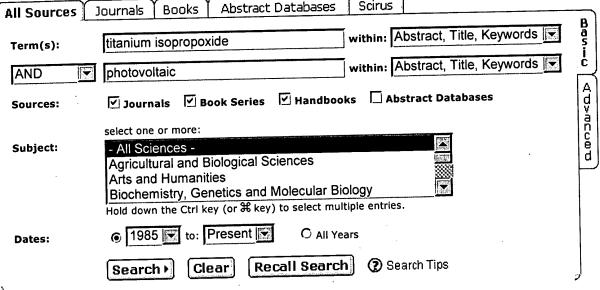
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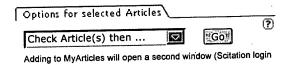
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ADA231494; Year: 1991;

5. Air Force Research Laboratory (AFRL). Manager of the **Basic Research Investment for the Air Force Research** Laboratory. Research Highlights, Jul/Aug 99. Rept. for Jul-Aug 99.

ADA367508; Year: 1999;

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